

A DNA fragment of *Desulfovibrio gigas* genome containing replication origin related genes



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Abstract: The nucleotide sequence of a 10,772 base pair (bp) region from *Desulfovibrio gigas* genome was determined. This sequence, which is adjacent to the region containing the coding units for the metalloproteins rubredoxin-oxygen oxidoreductase (ROO) and rubredoxin, includes the flavodoxin gene. Additionally, it also contains four open reading frames (ORFs) related to genes frequently found in replication origin regions of prokaryotes. These hypothetical encoded polypeptides are: the response regulator proteins (PhoP and PhoR) from the phosphate regulon, a DNA partitioning protein and an asparagine synthetase.

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